PATENT COOPERATION TREATY

To

NOTIFICATION OF TRANSMITTAL OF COPIES OF TRANSLATION OF THE INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OR CHAPTER II

OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

HASEGAWA, Yoshiki SOEI PATENT AND LAW FIRM, Ginza First Bldg., 10-6, Ginza 1-chome, Chuo-ku, Tokyo 1040061 JAPON

Date of mailing (day/month/year) 31 August 2006 (31.08.2006)

Applicant's or agent's file reference

FP04-0406-00 PCT/JP2004/018844

International application No.

IMPORTANT NOTIFICATION

International filing date (day/month/year) 16 December 2004 (16.12.2004)

From the INTERNATIONAL BUREAU

Applicant

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HAMAMATSU PHOTONICS K.K. et al.

- 1. Transmittal of the translation to the applicant.
 - The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter I).
- The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).
- 2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20 Switzerland

Authorized officer

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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

See item 4 below

Priority date (day/month/year)

19 December 2003 (19.12.2003)

FOR FURTHER ACTION

International filing date (day/month/year)

16 December 2004 (16.12.2004)

Lack of unity of invention

Certain documents cited

International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237									
Applicant HAMAMATSU PHOTONICS K.K.									
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1.	 This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a). 								
2.	 This REPORT consists of a total of 4 sheets, including this cover sheet. In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead. 								
3.	This report contains indications relating to the following items:								
	Box No. I	Basis of the report							
	Box No. II	Priority							
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							

4.	The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority
	date (Rule 44bis .2).

Certain observations on the international application

Certain defects in the international application

applicability; citations and explanations supporting such statement

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial

	Date of issuance of this report 22 August 2006 (22.08.2006)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Yoshiko Kuwahara
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Form PCT/IB/373 (January 2004)

Box No. IV

Box No. V

Box No. VI

Box No. VII

Box No. VIII

Applicant's or agent's file reference FP04-0406-00

International application No.

PCT/JP2004/018844

PATENT COOPERATION TREATY

TRANSLATION INTERNATIONAL SEARCHING AUTHORITY WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) FOR FURTHER ACTION Applicant's or agent's file reference See paragraph 2 below FP04-0406-00 Priority date (day/month/year) International filing date (day/month/year) International application No. 16.12.2004 19.12.2003 PCT/JP2004/018844 International Patent Classification (IPC) or both national classification and IPC Applicant HAMAMATSU PHOTONICS K.K. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability: citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/JP Authorized officer

Telephone No.

1 de 15

Facsimile No.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No PCT/JP2004/018844

Box	(No. 1 Basis of this opinion	
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it we filed, unless otherwise indicated under this item.	as
	This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (unde	er
	Rule 12.3 and 23.1(b)).	
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claim invention, this opinion has been established on the basis of:	ed
	a. type of material	- 1
	a sequence listing	
	table(s) related to the sequence listing	
	b. format of material	ı
	in written format	
	in computer readable form	
	c. time of filing/furnishing	
	contained in the international application as filed.	
	filed together with the international application in computer readable form.	- 1
	furnished subsequently to this Authority for the purposes of search.	
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed formished, the required statements that the information in the subsequent or additional copies is identical to that in the application filed or does not go become the application as filed, as appropriate, were formished.	or as
4.	Additional comments:	
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2004/018844

Box 1	No. V	Reasoned statemen citations and expla	t under Ru nations sup	le 43bis.Ita)(i) with regard to novelty, inventive step or industrial applicability: porting such statement	
1.	Statement				
	Novelty	(N)	Claims	1-12, 15-17	YES
			Claims	13, 14	NO .
	Inventiv	e step (IS)	Claims	1-12, 15-17	YES
			Claims	13, 14	. NO
	Industria	al applicability (IA)	Claims	1-17	YES
			Claims		NO

Citations and explanations:

Document 1: Schmidt W, Long term delayed luminescence: A possible fast and convenient assay for nutrition deficiencies and environmental pollution damages in plants, Plant and Soil, June 1988, Vol.109, No.1, pp.79-83

Claims 13 and 14

The inventions described in claims 13 and 14 do not appear to be novel or involve an inventive step based on document 1 cited in the ISR. Document 1 describes measuring delayed fluorescence of an aqueous solution sample in which alga having a photosynthesis function is mixed. Also, having a sample to stand by for a prescribed period of time in a light shielding state prior to measuring delayed fluorescence is considered to be naturally carried out in document 1 as well.

Claims 1-12 and 15-17

A specific technology of evaluating a fluorescent time change using a comparison sample to measure delayed fluorescence of an aqueous solution sample having a photosynthesis function described in claims 1-12, and an evaluation kit described in claims 15-17 are not described in any of the documents suggested in the ISR.